

RECORDING MEDIUM

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Inventor: KAWAI HISAO; EDA SHINJI; NAKAJIMA KIICHI

Applicant: HOYA CORP

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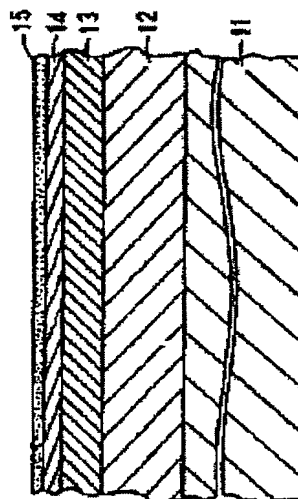
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Abstract of JP2031325

PURPOSE: To obtain the recording medium having high strength to cracking by maintaining a compressive stress layer up to at least 5mm inward of a substrate from the substrate surface and tensile stress of $\leq 4\text{kg/mm}^2$ max. value generated further in the substrate.

CONSTITUTION: This recording medium consists of the glass substrate 11 which has 3.7kg/mm^2 tensile strength and has the compressive stress layer extending down to 115mm in the thickness direction from the substrate surface as well as a successively laminated underlying layer 12 which consists of chromium, a magnetic layer 13 which is a recording layer consisting of cobalt, nickel and chromium, a protective layer 14 which consists of carbon, and a lubricating layer 15 which consists of a fluorocarbon lubricating agent. The sufficient strength is, therefore, obtd., as the tensile stress generated further inward of the substrate than the compressive stress layer is $\leq 4\text{kg/mm}^2$ is max. even if the cracks exceed 50mm. The recording medium effective for preventing the destruction by the crack and the degradation of the life is obtd. in this way.



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